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May 1997 **Proceedings of the twenty-ninth annual ACM symposium on Theory of computing**

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Ranjan Sinha, Justin Zobel

December 2004 **Journal of Experimental Algorithmics (JEA)**, Volume 9

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Ongoing changes in computer architecture are affecting the efficiency of string-sorting algorithms. The size of main memory in typical computers continues to grow but memory accesses require increasing numbers of instruction cycles, which is a problem for the most efficient of the existing string-sorting algorithms as they do not utilize cache well for large data sets. We propose a new sorting algorithm for strings, burstsort, based on dynamic construction of a compact trie in which strings are ...

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